

in a sucrose molecule to form raffinose, wherein said polynucleotide comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 1,

(b) a nucleotide sequence as depicted in SEQ ID NO: 2,

(c) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 3,

(d) a nucleotide sequence depicted by the 236<sup>th</sup> to 2584<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 4,

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*cont* (e) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 5,

(f) a nucleotide sequence depicted by the 134<sup>th</sup> to 2467<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 6,

(g) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 7,

(h) a nucleotide sequence depicted by the 1<sup>st</sup> to 1719<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 8,

(i) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from soybean with

a combination of a PCR primer of SEQ ID NO: 9 and a PCR primer of SEQ ID NO: 10, wherein said nucleotide sequence is hybridizable with a nucleotide sequence complementary to the nucleotide sequence of (a) or (b), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C,

(j) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from a *Chenopdiaceae* plant with a combination of a PCR primer selected from the group consisting of SEQ ID NO: 11 and SEQ ID NO: 13 and a PCR primer selected from the group consisting of SEQ ID NO: 12 and SEQ ID NO: 14, wherein said nucleotide sequence is hybridizable with a nucleotide sequence complementary to the nucleotide sequence of (c) or (d), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C, and

(k) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from a *Cruciferae* plant with a combination of a PCR primer selected from the group consisting of SEQ ID NO: 15, SEQ ID NO: 17 and SEQ ID NO: 19 and a PCR primer selected from the group consisting of SEQ ID NO: 16, SEQ ID NO: 18 and SEQ ID NO: 20, wherein said nucleotide sequence is hybridizable with a nucleotide sequence complementary to the nucleotide sequence of any one of (e) to (h), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C.

30. (Twice Amended) An isolated nucleic acid which comprises a polynucleotide encoding a protein that binds a D-galactosyl group through the  $\alpha(1\rightarrow6)$  bond to the hydroxyl group attached to the carbon atom at 6-position of the D-glucose residue in a sucrose molecule to form raffinose, wherein said polynucleotide comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 1,

(b) a nucleotide sequence as depicted in SEQ ID NO: 2,

*fr* (c) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 3,

(d) a nucleotide sequence depicted by the 236<sup>th</sup> to 2584<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 4,

(e) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 5,

(f) a nucleotide sequence depicted by the 134<sup>th</sup> to 2467<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 6,

(g) a nucleotide sequence encoding the amino acid sequence as depicted in SEQ ID NO: 7,

(h) a nucleotide sequence depicted by the 1<sup>st</sup> to 1719<sup>th</sup> nucleotides in the nucleotide sequence as depicted in SEQ ID NO: 8,

(i) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from soybean with a combination of a PCR primer of SEQ ID NO: 9 and a PCR primer of SEQ ID NO: 10, wherein said nucleotide sequence is hybridizable with a nucleotide sequence complementary to the nucleotide sequence of (a) or (b), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C,

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cond  
(j) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from beet with a combination of a PCR primer selected from the group consisting of SEQ ID NO: 11 and SEQ ID NO: 13 and a PCR primer selected from the group consisting of SEQ ID NO: 12 and SEQ ID NO: 14, wherein said nucleotide sequence is hybridizable with a nucleotide sequence complementary to the nucleotide sequence of (c) or (d), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C, and

(k) a nucleotide sequence obtainable from a polynucleotide which is amplifiable from a nucleic acid obtained from a *Cruciferae* plant with a combination of a PCR primer selected from the group consisting of SEQ ID NO: 15, SEQ ID NO: 17 and SEQ ID NO: 19 and a PCR primer selected from the group consisting of SEQ ID NO: 16, SEQ ID NO: 18 and SEQ ID NO: 20, wherein said nucleotide sequence is

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cond* hybridizable with a nucleotide sequence complementary to the nucleotide sequence of any one of (e) to (h), in a buffer comprising 0.9M NaCl and 0.09M citric acid at 65°C to 68°C.

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Attached hereto is a marked up version showing the changes made to the application by this Amendment.